

Weekly COVID-19 Update in Montana (as of 2/11/2022)

This report is a weekly snapshot of COVID-19 activity in Montana. Data are analyzed based on information available as of February 11, 2022. Data are provisional and expected to change as more information is received.

Case Data

Table 1. Summary of COVID-19 Activity – Montana, as of 2/11/2022

	TOTAL	RECENT WEEK	PERCENT CHANGE FROM PREVIOUS WEEK
REPORTED CASES	257,619	6,077	-35%
LABORATORY TESTS	2,586,967	36,028	-30%
HOSPITALIZATIONS	11,333	294	-10%
DEATHS	3,072	35	-1%

Figure 1. COVID-19 Cases and Hospitalizations over Time – Montana, as of 2/11/2022

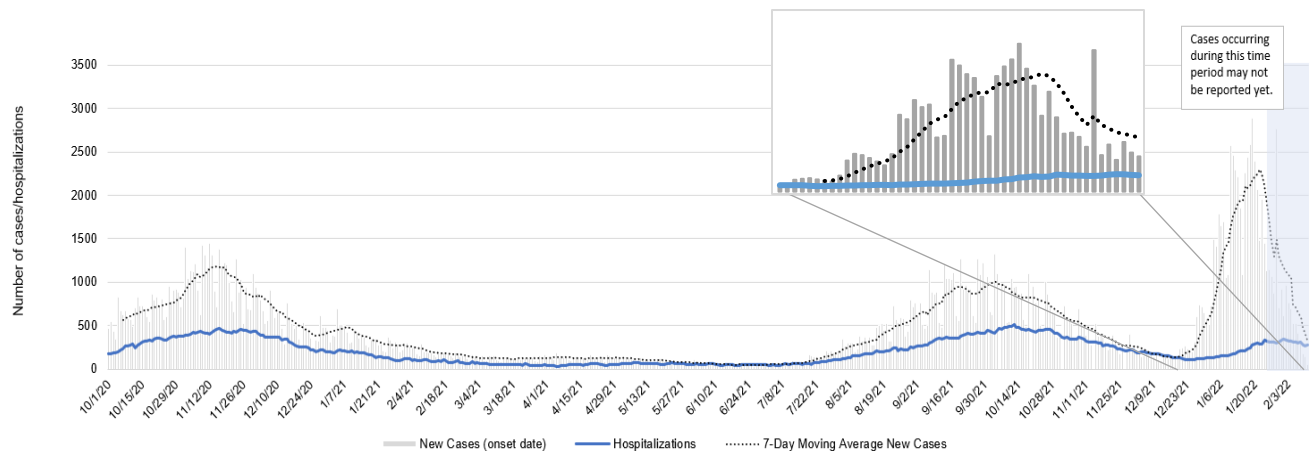


Figure 2: Status of Acute Care and ICU Beds – Hospitals in Montana, 2/2 – 2/15/2022

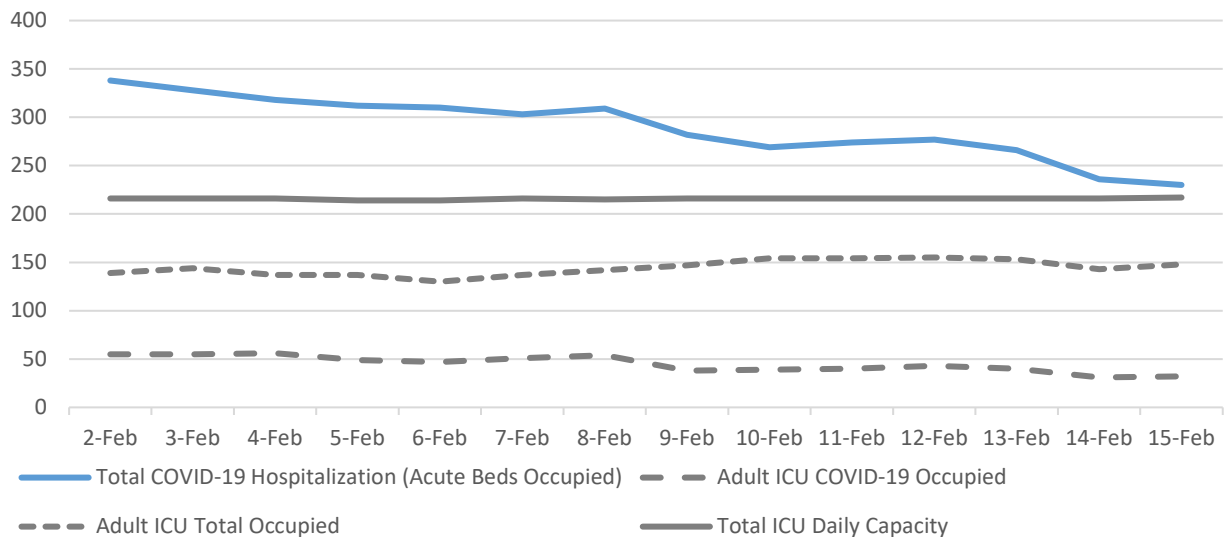
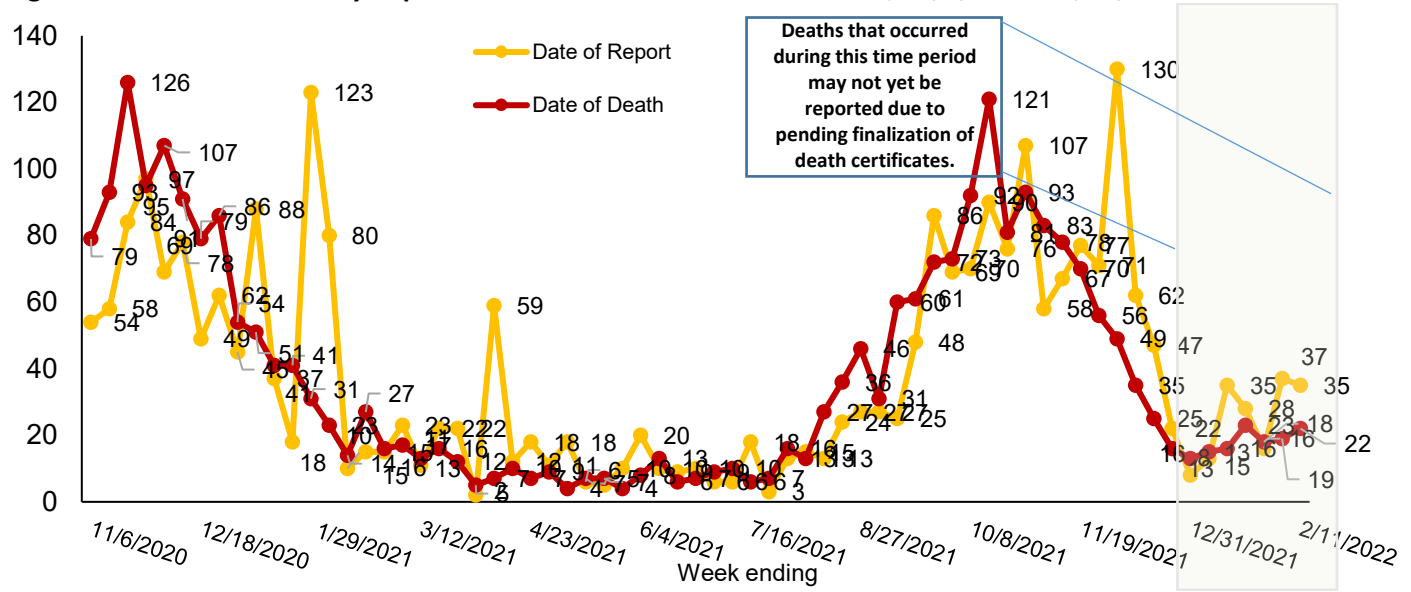


Figure 3. COVID-19 Deaths by Report Date and Date of Death – Montana, 11/1/2020 – 2/11/2022



Vaccine Data

Montana began vaccinating individuals in mid-December 2020 with a phased process: Phase 1A on December 14, 2020, Phase 1B on January 19, 2021, and Phase 1B+ on March 8, 2021. Vaccinations were opened to all Montanans age 16+ on April 1, 2021 and expanded to all Montanans age 12+ on May 10th, 2021. Most recently, the Pfizer vaccine was approved for the 5-11 year old age group on October 29th, 2021. To date, 1,396,494 doses have been given across the state and 54% of the eligible population is considered fully vaccinated (table 3).

Table 2: COVID-19 Vaccine Doses Administered for the 12 and older population – Montana, as of 2/11/2022

	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 1/28	WEEK ENDING 2/4	WEEK ENDING 2/11*
TOTAL DOSES ADMINISTERED	1,356,813		7,538	5,098	3,901
DOSE 1 ADMINISTERED	604,828	65%	1,624	1,157	951
FULLY VACCINATED INDIVIDUALS	536,426	58%	1,106	1,022	893

*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

Table 3: COVID-19 Vaccine Doses Administered for the 5 and older population – Montana, as of 2/11/2022

	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 1/28	WEEK ENDING 2/4	WEEK ENDING 2/11*
TOTAL DOSES ADMINISTERED	1,396,494		8,516	5,855	4,468
DOSE 1 ADMINISTERED	625,561	61%	2,064	1,407	1,154
FULLY VACCINATED INDIVIDUALS	552,499	54%	1,644	1,528	1,257

*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

Figure 4. COVID-19 Vaccine Doses Administered by Week, 5+ Years – Montana, as of 2/11/2022

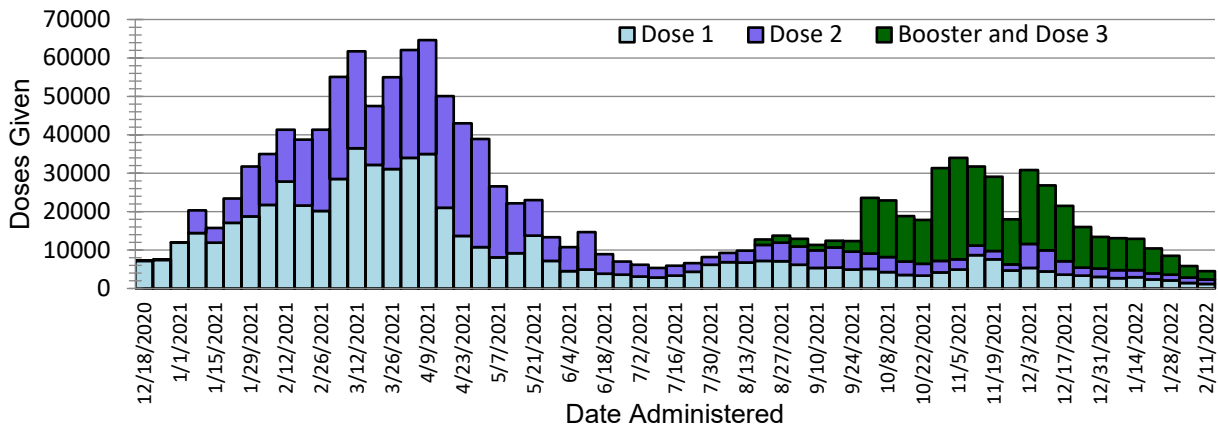
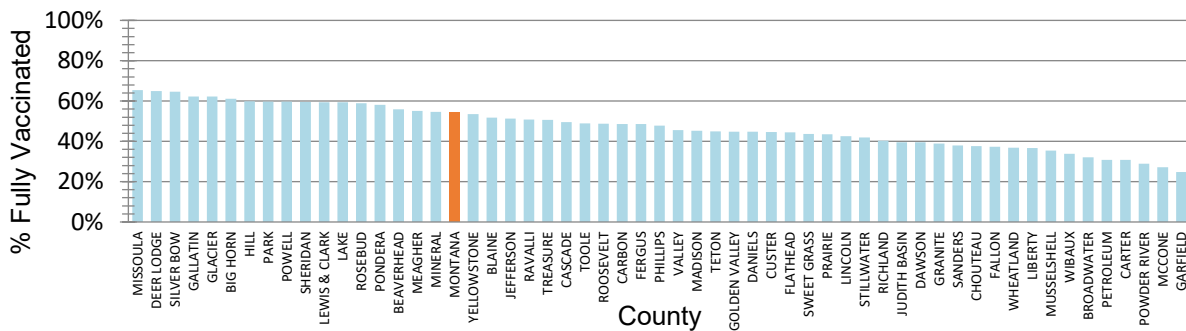


Figure 5. Percent of Eligible Montanans (5+ years) Fully Vaccinated by County – Montana, 2/11/2022



Variant and Breakthrough Cases

Figure 7 displays the percentage of the most common SARS-CoV-2 lineages detected each week, of all Montana samples sequenced that were collected that week. There were 11,030 samples from Montana that were sequenced and their lineages were reported to GISAID since September 2020; figure 6 displays the number of specimens sequenced by week.

As of February 15, there have been 1,980 cases in Montana infected with the Omicron variant, detected in most of Montana's local and tribal health jurisdictions. Last week, 61/61 (100%) specimens that were collected and sequenced were Omicron. In the last four weeks 915/918 (99.9%) specimens that were collected and sequenced were Omicron, and the remaining three were Delta. Omicron is the dominant circulating strain in the state, and is displayed in brown on the chart below.

Figure 6. Number of COVID-19 samples sequenced by collection date, Montana 2/15/2022 [n=11,030]

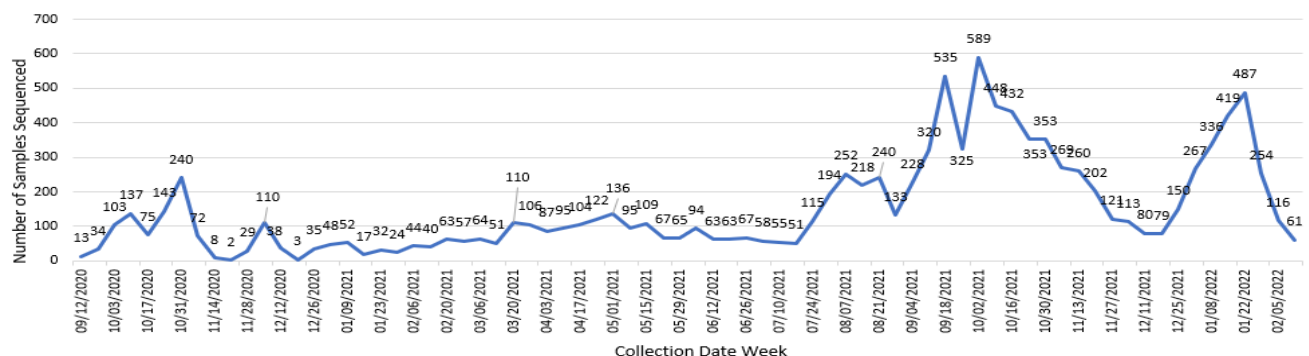
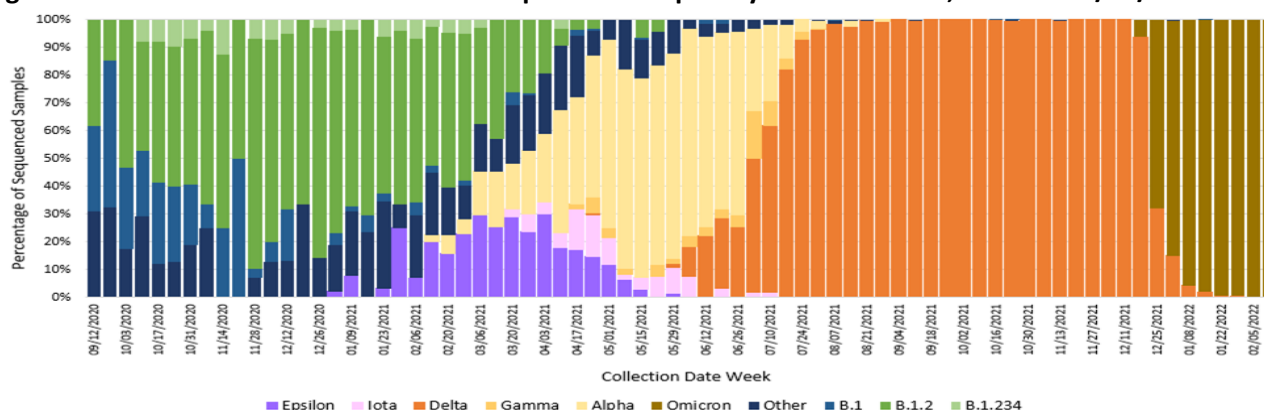


Figure 7. Percent of COVID-19 variants in sequenced samples by collection date, Montana 2/15/2022



A breakthrough COVID-19 infection is defined as a positive SARS-CoV-2 specimen collected ≥ 14 days after completing the primary COVID-19 vaccine series of an FDA-authorized COVID-19 vaccine. Studies show that protection from COVID vaccination decreases over time; in response, the CDC has recommended booster doses for eligible populations to protect against waning immunity. As of 2/11/2022, Montana reports 36,479 cases of confirmed breakthrough disease, which includes 1,252 hospitalizations and 329 deaths. CDC data from November show that unvaccinated adults were more than 4 times more likely to become infected with COVID, compared to fully vaccinated adults. However, when booster doses were considered, unvaccinated adults were more than 13 times more likely to become infected compared to fully vaccinated adults with booster doses.¹

Hospitalizations and Deaths and Vaccination Status

COVID-19-related hospitalizations and deaths were analyzed between **April 1, 2021 and February 11, 2022** to review vaccination status. Since the beginning of April 2021, 81% of Montanans who were hospitalized and 78% of those who died were unvaccinated at the time of infection (Table 4). Of the 6,488 individuals who were hospitalized during this time period, 121 (2%) were <18 years old, 896 (14%) were 18 to 44 years old, 2,170 (33%) were 45 to 64 years old and 3,301 (51%) were ≥ 65 years old.

Additionally, COVID-19-related hospitalization and death data from **December 18, 2021 – February 11, 2022** (last 8 weeks) were analyzed to review vaccination status. Sixty-eight percent of Montanans who were hospitalized and 80% of those who died had not received a COVID-19 vaccine (Table 5). Of the 991 individuals who were hospitalized during this time period, 30 (3%) were <18 years old, 103 (10%) were 18 to 44 years old, 268 (27%) were 45 to 64 years old and 590 (60%) were ≥ 65 years old.

Table 4. Vaccination status of COVID-19 hospitalizations and deaths – April 1 to February 11, 2022

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	6,488	1,479
UNVACCINATED	5,256 (81%)	1,157 (78%)
VACCINATED (BREAKTHROUGH CASE)	1,232 (19%)	322 (22%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<1-102 (63)	23-103 (71)
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	7-101 (74)	20-101 (81)

¹ CDC – COVID Data Tracker – Rates of COVID-19 Cases and Deaths by Vaccination Status.
<https://covid.cdc.gov/covid-data-tracker/#rates-by-vaccine-status>. January 25, 2022.

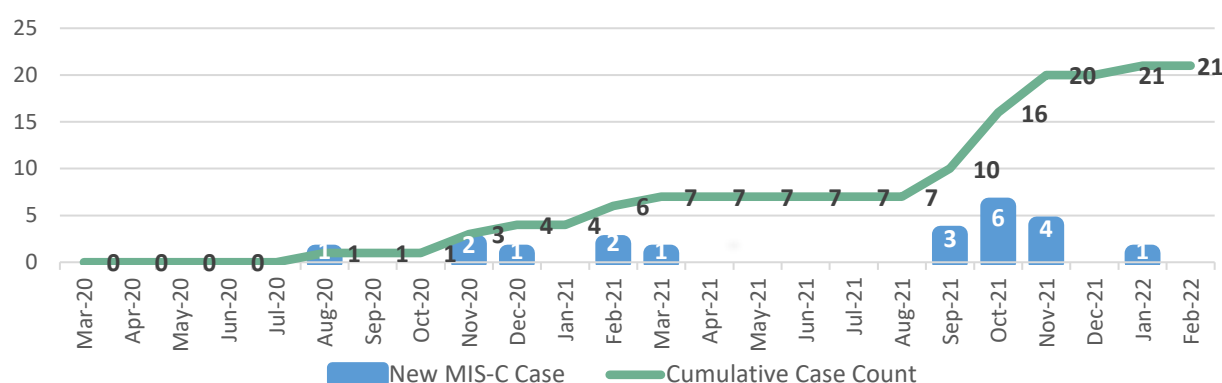
Table 5. Vaccination status of COVID-19 hospitalizations and deaths – December 18 to February 11, 2022

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	991	142
UNVACCINATED	669 (68%)	113 (80%)
VACCINATED (BREAKTHROUGH CASE)	322 (32%)	29 (20%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<1-101 (65)	37-101 (73)
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	7-98 (72)	48-94 (78)

Multisystem Inflammatory Syndrome in Children (MIS-C)

As of February 11, 2022, there have been a total of 21 reported cases of multisystem inflammatory syndrome in children, or MIS-C, reported in Montana. There have been no deaths. Ages range from less than 1 year to 20 years old; median is 8 years. Ten cases were female, 11 were male. Cases are from 13 counties around Montana. The first case of MIS-C was reported in August 2020; 14 of the 21 cases have been reported since September 2021 (Figure 8).

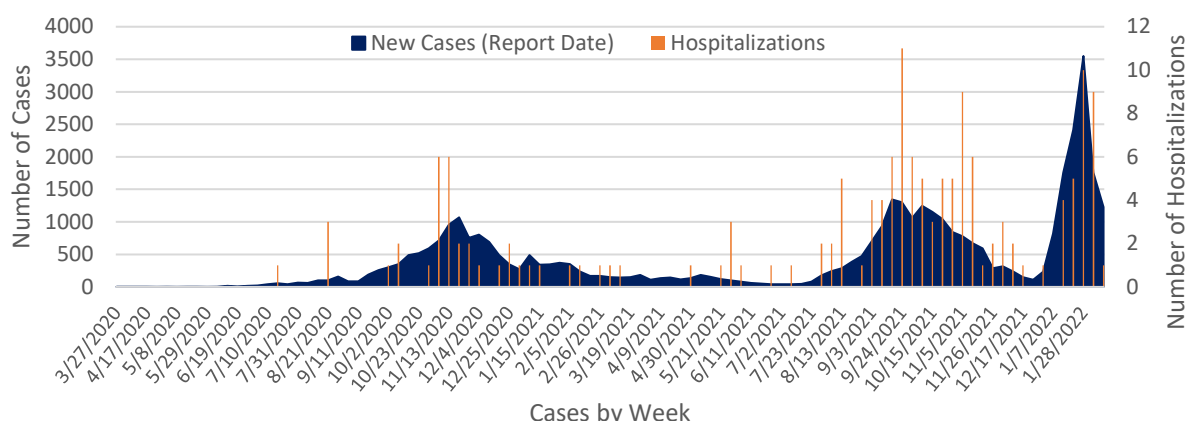
Figure 8. Montana MIS-C Cases by Month of Onset, March 2020 – February 2022









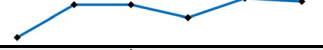


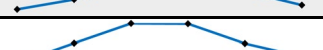















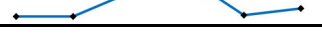



Cases and Hospitalizations Associated with COVID-19 Among Children


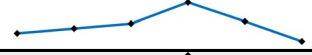









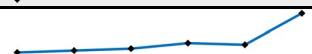











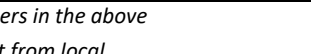



To date, there have been 40,473 children <18 years old in Montana diagnosed with COVID-19. Of those, 157 (<1%) have been hospitalized. Case rates among children follow a similar pattern to COVID-19 cases among all age groups (see Figure 1 for comparison) and increased sharply during the recent Omicron surge (Figure 9). There were 1,225 cases of COVID-19 in children reported during the week of February 5 – February 11, 2022, which is a 30% decrease in cases among that age group compared to the previous week. One hospitalization in a child was reported that week.

Figure 9. COVID-19 Cases and Hospitalizations by Week, March 2020 – February 11, 2022, Children <18



Reported COVID-19 Cases by County with Trendline – Montana, past 6 weeks

County	7-Jan	14-Jan	21-Jan	28-Jan	4-Feb	11-Feb	change from previous week*	Trendline
Beaverhead	38	52	131	151	53	29	-24	
Big Horn	21	53	152	395	177	307	130	
Blaine	17	23	101	139	32	174	142	
Broadwater	17	26	41	41	32	25	-7	
Carbon	43	86	61	87	51	32	-19	
Carter	0	1	1	11	3	2	-1	
Cascade	303	542	948	1709	1150	940	-210	
Chouteau	15	25	25	21	27	26	-1	
Custer	28	67	139	128	66	44	-22	
Daniels	1	9	22	10	11	12	1	
Dawson	29	48	80	106	64	37	-27	
Deer Lodge	38	102	165	164	101	59	-42	
Fallon	9	2	39	22	18	18	0	
Fergus	56	58	40	139	61	65	4	
Flathead	468	756	508	1236	918	580	-338	
Gallatin	1498	2721	2360	1804	687	407	-280	
Garfield	4	19	7	12	2	4	2	
Glacier	56	85	127	345	261	167	-94	
Golden Valley	1	2	6	7	6	5	-1	
Granite	22	19	30	9	15	9	-6	
Hill	39	107	165	312	156	158	2	
Jefferson	32	90	125	148	80	63	-17	
Judith Basin	5	11	11	12	5	6	1	
Lake	91	147	256	585	165	112	-53	
Lewis and Clark	434	507	668	1479	953	321	-632	
Liberty	7	33	18	25	15	10	-5	
Lincoln	94	118	186	222	163	84	-79	
Madison	44	67	88	59	46	23	-23	
McCone	5	6	21	14	12	6	-6	
Meagher	9	9	30	43	10	16	6	

County	7-Jan	14-Jan	21-Jan	28-Jan	4-Feb	11-Feb	change from previous week*	Trendline
Mineral	14	45	89	77	36	22	-14	
Missoula	913	1165	1405	2457	1507	522	-985	
Musselshell	19	19	24	35	15	20	5	
Park	60	94	418	262	125	162	37	
Petroleum	1	0	1	5	0	1	1	
Phillips	13	15	45	31	21	22	1	
Pondera	14	34	58	84	57	30	-27	
Powder River	2	3	5	12	6	6	0	
Powell	17	53	97	98	45	50	5	
Prairie	9	12	16	6	14	6	-8	
Ravalli	156	188	305	270	198	115	-83	
Richland	65	67	29	156	81	43	-38	
Roosevelt	8	71	117	172	182	134	-48	
Rosebud	16	30	44	86	73	307	234	
Sanders	50	89	121	113	36	42	6	
Sheridan	4	3	32	23	22	24	2	
Silver Bow	126	291	432	568	159	116	-43	
Stillwater	5	34	69	32	36	27	-9	
Sweet Grass	13	31	38	32	20	9	-11	
Teton	33	74	76	62	33	14	-19	
Toole	13	24	35	48	57	22	-35	
Treasure	0	1	2	8	6	2	-4	
Valley	29	19	50	43	49	35	-14	
Wheatland	2	2	17	34	21	17	-4	
Wibaux	0	5	7	6	5	0	-5	
Yellowstone	765	1504	1452	2836	1265	588	-677	
MONTANA	5771	9664	11535	16991	9409	6077	-3332	

*Note: Data are based on the date of report into the Montana Infectious Disease Information System (MIDIS). Underlined numbers in the above table reflect adjusted counts and may include cases diagnosed but not reported in earlier time frames. These adjustments result from local and state data reconciliation efforts, conducted to ensure accurate data.

County name	Eligible population 5+	Dose 1	Dose 2	Dose 3	Fully Immunized	Total Doses Administered	Percent eligible with first dose (5+)	Percent Fully Vaccinated (5+)
BEAVERHEAD	9,091	5,461	4,385	2,525	5,081	12,371	60%	56%
BIG HORN	11,975	8,139	6,952	2,618	7,323	17,709	68%	61%
BLAINE	6,044	3,649	2,919	1,447	3,126	8,015	60%	52%
BROADWATER	6,092	2,305	1,713	918	1,951	4,936	38%	32%
CARBON	10,476	5,549	4,745	2,618	5,092	12,912	53%	49%
CARTER	1,141	372	329	172	351	873	33%	31%
CASCADE	76,124	42,476	33,659	16,869	37,694	93,004	56%	50%
CHOUTEAU	5,430	2,216	1,855	1,254	2,042	5,325	41%	38%
CUSTER	10,692	5,310	4,273	2,275	4,778	11,858	50%	45%
DANIELS	1,559	735	643	333	697	1,711	47%	45%
DAWSON	8,071	3,489	2,880	1,536	3,189	7,905	43%	40%
DEER LODGE	8,887	6,305	5,202	3,145	5,772	14,652	71%	65%
FALLON	2,646	1,077	938	459	988	2,474	41%	37%
FERGUS	10,495	5,457	4,702	2,684	5,097	12,843	52%	49%
FLATHEAD	99,993	51,668	40,258	21,578	44,525	113,504	52%	45%
GALLATIN	110,900	82,133	62,871	32,459	69,009	177,463	74%	62%
GARFIELD	1,188	318	253	102	295	673	27%	25%
GLACIER	12,447	10,399	7,189	3,076	7,742	20,664	84%	62%
GOLDEN VALLEY	788	383	321	153	353	857	49%	45%
GRANITE	3,218	1,447	1,148	598	1,254	3,193	45%	39%
HILL	14,914	9,818	7,547	3,920	8,925	21,285	66%	60%
JEFFERSON	11,819	6,674	5,654	3,139	6,063	15,467	56%	51%
JUDITH BASIN	1,880	790	683	379	744	1,852	42%	40%
LAKE	29,280	19,751	16,163	8,527	17,364	44,441	67%	59%
LEWIS & CLARK	66,257	44,781	36,526	20,869	39,374	102,176	68%	59%
LIBERTY	2,234	855	721	439	821	2,015	38%	37%
LINCOLN	19,480	9,399	7,573	4,075	8,276	21,047	48%	42%
MADISON	8,589	4,375	3,454	2,025	3,888	9,854	51%	45%
MCCONE	1,562	449	415	234	424	1,098	29%	27%
MEAGHER	1,726	1,008	868	483	951	2,359	58%	55%
MINERAL	4,302	2,614	1,880	1,145	2,351	5,639	61%	55%
MISSOULA	115,881	84,310	69,753	39,497	75,763	193,560	73%	65%
MUSSELSHELL	4,458	1,704	1,382	707	1,577	3,793	38%	35%
PARK	15,969	11,106	8,608	4,830	9,530	24,544	70%	60%
PETROLEUM	483	159	140	85	149	384	33%	31%
PHILLIPS	3,675	1,883	1,450	886	1,757	4,219	51%	48%
PONDERA	5,389	3,538	2,754	1,420	3,128	7,712	66%	58%
POWDER RIVER	1,588	501	402	200	460	1,103	32%	29%
POWELL	6,534	4,198	3,108	1,764	3,897	9,070	64%	60%
PRAIRIE	994	461	411	228	433	1,100	46%	44%
RAVALLI	42,972	24,348	19,456	11,622	21,826	55,426	57%	51%
RICHLAND	10,310	4,405	3,477	1,786	4,157	9,668	43%	40%
ROOSEVELT	9,918	5,587	4,100	1,944	4,838	11,631	56%	49%
ROSEBUD	8,160	5,406	4,281	2,107	4,806	11,794	66%	59%
SANDERS	11,641	4,987	4,129	2,245	4,420	11,361	43%	38%
SHERIDAN	3,075	1,930	1,696	967	1,829	4,593	63%	59%
SILVER BOW	33,267	23,650	20,180	10,981	21,513	54,811	71%	65%
STILLWATER	9,451	4,318	3,406	2,004	3,957	9,728	46%	42%
SWEET GRASS	3,523	1,695	1,314	785	1,537	3,794	48%	44%
TETON	5,819	3,096	2,178	1,211	2,617	6,485	53%	45%
TOOLE	4,391	2,311	1,736	724	2,146	4,771	53%	49%
TREASURE	623	424	293	140	316	857	68%	51%
VALLEY	6,931	3,357	2,704	1,645	3,160	7,706	48%	46%
WHEATLAND	2,035	804	694	381	749	1,879	40%	37%
WIBAUX	898	352	296	124	304	772	39%	34%
YELLOWSTONE	153,378	91,629	75,864	38,065	82,090	205,558	60%	54%
MONTANA	1,020,663	625,561	502,531	268,402	552,499	1,396,494	61%	54%